

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

AMENDMENTS TO THE CLAIMS

1. (Original) A method of automatically controlling a transmission power of a wireless communication apparatus in order to suppress consumed transmission power, the method comprising the steps of:

setting the transmission power to a maximum value at a start of transmission;

gradually reducing the transmission power by a predetermined amount, each time when transmission succeeds a predetermined number of times; and

in the case of a transmission failure at a transmission power which is gradually reduced by the predetermined amount, determining a power which is higher by the predetermined amount than the transmission power, as an optimum value.

2. (Original) The method of claim 1, wherein the transmission failure case is one where transmission fails a predetermined number of times at a same transmission power.

3. (Original) The method of claim 1, wherein once the optimum transmission power is set, the optimum transmission power is maintained unless any transmission failure occurs.

4.(Original) The method of claim 1, wherein in the case where a non-communication time period reaches a preset time period, transmission is carried out at the maximum transmission power, from which determination of optimum transmission power is started.

5.(Original) The method of claim 1, wherein in the case where a transmission failure occurs after the optimum transmission power is set, transmission power is raised to the maximum value and resetting of optimum transmission power is carried out.

6.(Original) The method of claim 1, wherein in the case where transmission fails at the maximum transmission power, retransmission of data is carried out with the maximum transmission power maintained.

7.(Original) The method of claim 1, wherein in the case where transmission fails a predetermined number of times after the optimum transmission power is set, the transmission power is raised to the maximum value and resetting of optimum transmission power is carried out.

8.(Original) A storage medium on which a method of automatically controlling a transmission power of a wireless

communication apparatus in order to suppress consumed transmission power is stored, the method comprising:

setting transmission power to a maximum value at a start of communication;

thereafter gradually reducing the transmission power by a predetermined amount each time when transmission succeeds a predetermined number of times; and

in the case where transmission fails at a gradually reduced transmission power, determining a power higher than the gradually reduced transmission power as an optimum transmission power.

9.(Original) The storage medium of claim 8, wherein the case where transmission fails is one where transmission at a same transmission power fails a predetermined plural number of times.

10.(Original) The storage medium of claim 8, wherein after the optimum transmission power is set, the optimum transmission power is maintained until any transmission failure occurs.

11.(Original) The storage medium of claim 8, wherein in the case where a non-communication time period reaches a preset time period, transmission power is raised to the maximum value and setting of optimum transmission power is carried out.

12.(Original) The storage medium of claim 8, wherein in the case where transmission fails after the optimum transmission power is set, transmission power is raised to the maximum value and setting of optimum transmission power is again carried out.

13.(Original) The storage medium of claim 8, wherein in the case where transmission fails at the maximum transmission power, retransmission of data is carried out with the maximum transmission power maintained.

14.(Original) The storage medium of claim 8, wherein in the case where transmission fails a predetermined number of times after the optimum transmission power is set, transmission power is raised to the maximum value and setting of optimum transmission power is again carried out.

15.(Original) A method of automatically controlling a transmission power of a wireless communication apparatus in order to suppress the transmission power, comprising:

setting transmission power at a start of communication to a maximum value;

each time when transmission succeeds a predetermined number of times, gradually reducing the transmission power by a predetermined amount;

in the case where transmission at a transmission power which is gradually reduced by the predetermined amount fails, determining a power higher than the transmission power by the predetermined amount as an optimum transmission power; and,

after the optimum transmission power is set, maintaining the optimum transmission power unless any transmission failure occurs.

16.(Original) The method of claim 15, wherein in the case where transmission fails after the optimum transmission power is set, transmission power is raised to a maximum value and setting of optimum transmission power is again carried out.

17.(Original) The method of claim 15, wherein when a non-communication time period reaches a preset time period, transmission power is raised to a maximum value and setting of optimum transmission power is again carried out.

18.(Original) The method of claim 15, wherein the transmission failure case is a case where transmission at a same transmission power fails a predetermined plural number of times.

19.(Original) The method of claim 15, wherein in the case where transmission fails at the maximum transmission power,

retransmission is carried out with the transmission power maintained at the maximum value.

20. (Original) The method of claim 15, wherein in the case where transmission fails a predetermined number of times after the optimum transmission power is set, transmission power is raised to a maximum value and setting of optimum transmission power is again carried out.

21. (New) A method of automatically controlling a transmission power of a wireless communication apparatus comprising the steps of:

- a) setting the transmission power to a maximum level;
- b) transmitting at least one transmission at the maximum power level;
- c) determining whether the at least one transmission was successful or unsuccessful;
- d) each time the at least one transmission is successful, reducing the transmission power by a predetermined amount to a subsequent level;
- e) repeating steps c and d until the at least one transmission at the subsequent level is unsuccessful;
- f) increasing the power level by the predetermined amount to an optimal power level; and

g) transmitting at the optimal power level until at least one transmission at the optimal power level is unsuccessful.

22. (New) The method of claim 21 including the additional step of increasing the power level to the maximum level after at least one transmission at the optimal power level is unsuccessful.

23. (New) A storage medium on which a method of automatically controlling a transmission power of a wireless communication apparatus is stored, the method comprising the steps of:

- a) setting the transmission power to a maximum level;
- b) transmitting at least one transmission at the maximum power level;
- c) determining whether the at least one transmission was successful or unsuccessful;
- d) each time the at least one transmission is successful, reducing the transmission power by a predetermined amount to a subsequent level;
- e) repeating steps c and d until the at least one transmission at the subsequent level is unsuccessful;
- f) increasing the power level by the predetermined amount to an optimal power level; and
- g) transmitting at the optimal power level until at least one transmission at the optimal power level is unsuccessful.

24. (New) The storage medium of claim 23 wherein said method includes the additional step of increasing the power level to the maximum level after at least one transmission at the optimal power level is unsuccessful.